

## Vine Server 3.11 Release Notes

### Version 3.11 Released 12-October-2009:

Modified by Jonathan Gillaspie with TestPlant, Inc.

Note: This release supports 10.3.9 and above, PPC and Intel

Fixed a number of international keyboards that had a small number of keys not mapped (like i and ; in French.)

Fixed a compile level problem that caused a crash when using ZRLE encoding

### Version 3.1 Released 01-June-2009:

Modified by Jonathan Gillaspie with TestPlant, Inc.

Note: This release supports 10.3.9 and above, PPC and Intel

Added an advanced preference to specify which event source Vine Server should register with (10.4+)

Added an advanced preference to use OpenGL to capture the display, best on newer Intel hardware (10.4+)

Moved Keyboard Events selector to Advanced Settings.

Fixed a problem running on 10.3.9

Fixed a problem auto launching the server from GUI when Vine Server was set to Auto-Hide

Fixed a problem not honoring the selection to disable Bonjour.

Fixed a problem with Require SSH not being stored correctly for System Server.

Fixed a problem with server shutting down after a logout.

Fixed a number of international keyboards that had a small number of keys not mapped (like i in Belgian, o in Swiss, etc.)

Fixed an occasional problem sending rich cursors to the remote system.

Fixed an occasional problem not sending the right information on a copy/cut.

Fixed a problem with Echoware bundle loaded twice.

### Version 3.0, Released 17-Dec-2007:

Modified by Jonathan Gillaspie with Redstone Software, Inc.

Note: This release supports 10.3.9 and above, PPC and Intel

International Interfaces haven't been converted to the new interface, as they become available we will post them.

#### Added support for Leopard System Servers

##### Interface:

Cleaned up interface by introducing a basic control panel and moving settings to dedicate Preference Pane.

Moved "View Log" and "Reverse Connection" to menus

Added Reporting for Client Connection List (and icon badging in Leopard)

Added external IP lookup and ability to verify access to your VNC server from detected IPs

Always allow a server restart from the UI

Panel to prevent accidentally quitting Vine Server when users are connected

##### Startup:

Better IP and DNS resolution so that initial startup is not delayed (as can happen on Leopard)

Added LaunchD support for the System Server on 10.5

Fixed a Leopard issue with displaying an extra icon

Added better versioning (AVS)

##### VNC Server:

Added support for Unicode keyboard (10.4+)

Added support to detect keyboard type (10.4+)

Added support to control where events enter the system (Event Taps) (10.4+)

Fixed a bug auto-detecting the proper port when SSH-only was checked.

Fixed a lockup problem in the OSXvnc-server process that could occur with Rich Clipboard Support enabled.

Fixed a problem repeatedly trying to send an empty clipboard buffer.

Fixed a bug with restoring otherArguments from defaults

### Version 2.2, Released 1-August-2007:

Modified by Jonathan Gillaspie with Redstone Software, Inc.

Added warnings when launching or setting a system server with no password set.

Added a new -maxdepth argument to limit incoming connections..

Added a new -maxauths to limit brute force VNC server attacks.

Fixed a problem with keyboard events being impacted by local modifier keys (like CapsLock and Command).

Fixed a problem detecting "self connection loops" where we are providing our own Pasteboard Data.

Fixed a problem with multiple users launching the same copy of Vine Server.

Fixed a problem with launching Vine Server when our own Host Name can't be determined.

Host name is retrieved in a separate thread to prevent hanging the app when DNS isn't setup.

Improvements to performance when accessing clipboard data.  
Removed spurious log messages when accessing clipboard dat.  
Changed install permissions to 755 for increased security.  
Defaults to storing the .osxvncauth files to the users home directory.

**Version 2.1, Released 5 December 2006:**

Modified by Jonathan Gillaspie & Doug Simons with Redstone Software, Inc.

Fixed a problem with Host Name Lookups when doing Reverse Connections  
Fixes to move all clipboard interaction through main thread (required for 10.2 support and better all around behavior).  
Fix to improper behavior when changing the display number to Auto.  
Improved support for 10.1 and below by adding a dynamically loadable call to the CGMainDisplay() function..

Much improved Rich Pasteboard support for 10.2, 10.3 and for interactions with those versions and 10.4.  
Fixed a crash when multiple threads accessed the pasteboard variables  
Fixed a crash accessing client pasteboard data after it's been cleared.  
Fix to not retaining the "COPY" string when it's put to the pasteboard.  
Fix for one of many pasteboard files when we can't read the file.  
Improvements to detecting "self connection loops" where we are providing our own Pasteboard Data.

**Version 2.0, Released 1 November 2006:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.

Renamed the server wrapper to correspond to it's companion - Vine Viewer!  
<http://www.redstonesoftware.com/products/vine> for more information

Added Rich Clipboard Support for Mac OS X

Vine Server now includes a User Manual  
Thanks to Pamela Gillaspie

Incorporated a much better keep-alive script for the System Server  
Thanks to Marvin Simkin

Improved Performance on 10.4+ systems by un-registering for notifications when server has no clients connected

Fixed a compatibility problem running on 10.1.5  
Fixed InfoPlist encoding

Removed Host Name/IP Address Display when none are found

Added German Localization  
Thanks To Jörg Mehring

Added Italian Localization  
Thanks to Claudio and Creative Shield (<http://shieldnet.tk/>)

Improved Some Japanese Localized Strings  
Thanks to Hiroshi Saito

**Version 1.71, Released 01/26/2006:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.

[osxvnc@redstonesoftware.com](mailto:osxvnc@redstonesoftware.com)

Added support for ISO Latin Clipboards as per RFB Spec 3.8 (Compatible with TightVNC)

Fixed a problem with the Startup Item Shutting down after a user-logout  
Fixed a problem for Startup Item with spaces in the Display Name  
Fixed a problem reporting default DeferUpdate timer value

Fixed problems compiling for Intel Macs on PPC Macs

**Version 1.7, Released 01/06/2006:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.

[osxvnc@redstonesoftware.com](mailto:osxvnc@redstonesoftware.com)

Added GUI Support to Establish Reverse Connections to listening VNC Viewers:  
You can now add as many listening hosts as you want directly from the GUI.

Converted OSXvnc to a full Universal Binary For Improved Intel performance.

Added a mode to force backward compatibility to older protocol versions (3.3).  
Added a flag to disable the screen saver while clients are connected.

Fixed a problem with screen updates on INTEL Prerelease 10.4.2 and above.  
Fixed a problem with Jaguar Extensions(Bonjour) when first "Configuring the Startup Item", worked on subsequent boots.

Fixed a problem with the "ConnectHost" option when specifying IPv4 addresses or host names which resolved to IPv4.  
Fixed a problem where the application could user CPU cycles even when no user was connected.  
Fixed a problem with IPv6 host names not showing up

Fixed a problem with repeated crashes not exiting the keep-alive script

**Version 1.61, Released 8/3/2005:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
osxvnc@redstonesoftware.com

New With Tiger! Multiple Mac OS X Desktops:

Please read this separate guide to Multiple Desktop Sessions on Mac OS 10.4 - TIGER.

Improved default preferences to work best for Multiple Mac OS X Desktops.

Fixed color mapping problems for Intel Macs.

Fixed a problem with the startup script being unable to kill running Startup Items.

Fixed a problem with the startup item not supporting Rendezvous.

Fixed a problem where changing only the bit depth on the local machine resulted in bad data being sent to client.

Fixed a crashing/disconnect bug with certain animated cursors.

Added "Auto" to display number/port selection (0 from command line), this will find the first open port 5900-5909.

Added support to update the IP and Host Name sections when network changes (10.4+ Only)

Added RFB support for protocol version 003.008

Added IPv6 Support (10.2+ Only)

Special Thanks To Jens-Uwe Mager for the patch.

Added TCP\_NODELAY on socket to improve performance, particularly with \*2vnc type applications.

Added a backwards compatibility flag (-rendezvous VNC) for old rendezvous service name.

Added Japanese Localization

Special Thanks to Aaron Madlon-Kay

**Version 1.5, Released 2/1/2005:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
osxvnc@redstonesoftware.com

Added support for Server Side Scaling (Both PalmVNC and UltraVNC style)

Special Thanks To Noriaki Yamazaki

Administrator of micro-VNC

Hitachi System & Service, Ltd.

Added command-line support for Reverse connections.

Special Thanks to Mark Lentczner

Added French Localization

Special Thanks to Pascal Frey

Switch Rendezvous (zero-conf) support to use \_rfb.\_tcp for compatibility with other servers.

Turned KeyboardLoading OFF by default since it is currently detrimental for international keyboard users.

Fixed a problem doing startup on OSX 10.1.5.

Fixed a problem doing startup on OSX 10.4 (TIGER).

Fixed a crashing bug with pasteboard access when multiple clients are connected.

Added special psuedo-encoding so OSXvnc can report when it's clipboard is inaccessible.

**Version 1.4, Released 8/17/2004:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
osxvnc@redstonesoftware.com

Added Rendezvous (zero-conf) support using \_vnc.\_tcp.

VNC Discovery will work with **Chicken of The VNC** and **Eggplant**

Fixed a problem where the "Never Share Connection" option was being ignored from the GUI

Fixed a problem where a spurious 0 file was created when running the startup script

Fixed a problem where the keep-alive script wouldn't shutdown properly on unrecoverable errors

**Version 1.33, Released 3/18/2004:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
osxvnc@redstonesoftware.com

Added support for pressing Keypad keys.

Fixed a small problem with depth being reported as 32 for 24 bit screens.

Added a -noupdates flag for users of x2vnc or win2vnc.

Fixed a password problem with startup item which sometimes used /tmp/.osxvncauth, now this file is written with the startup item.

Fixed a problem with the auto restart script on 10.2.8

Server now returns a negative number for unrecoverable errors (to tell the restart script to not try to restart it).

Improved timing of Startup Item creation so that all authorized calls finish before we proceed.

Improved scripts to use AWK more efficiently.

Fixed permissions on Startup Item.

Added a **restart** directive to the startup item.

Added the **PasswordFile** default to override where password file is stored (for GUI).

Added the **LogFile** default to override where password file is stored (for GUI).

**Version 1.32, Released 12/12/2003:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
[osxvnc@redstonesoftware.com](mailto:osxvnc@redstonesoftware.com)

Fixed problem with Idle clients being disconnected  
Added Host Names and IP Addresses to the General Tab  
Added a remove Startup Item button  
Added GUI support to terminate connections after a Fast User Switch (still working on better reconnect behavior)  
Authentications now persist in OSXvnc GUI  
Moved to XCode and fixed some compile problems and backwards compatibility issues  
Fixed a problem with -restartonuserswitch Flag not recognizing yes/Yes  
Added defaults to override log and password file locations of GUI (LogFile and PasswordFile, respectively)

**Version 1.31, Released 12/02/2003:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
[osxvnc@redstonesoftware.com](mailto:osxvnc@redstonesoftware.com)

Fixed problem with Startup Scripts not able to handle spaces in path  
Fixed problem with StartupItem not starting up on some systems due to incorrect StartupItem.plist  
Fixed problem with connecting to some clients when running on 10.1.5 (Unknown Auth Type)  
    Fixed crashing bug when a non-ZRLE client disconnected  
    Fixed problem with GUI autorestart flag not always restarting  
Clarify Screen Resolution changed message.  
Added a -restartonuserswitch command line flag to quit the server (and allow it to be restarted) on a user switch  
Improved performance with respect to registering for local screen updates (Win2VNC and X2VNC)  
Change to help with Mac OS stuttering when no clients are connected

**Version 1.3, Released 9/17/2003:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.  
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OSXvnc GUI has been broken out to allow for more options and to match Preference Panes more closely.  
Added GUI controls to set for System Startup Up (Including Authentication)  
    WARNING: OSXvnc run at StartUp Does NOT have pasteboard synchronization  
Added Mac OS X Cursor Support  
    Added RichCursorSupport (RFB 3.7 + Tight)  
    Added CursorPositionUpdate Support (Tight)  
Supports Dynamic Screen Sizing (Clients need no longer reconnect after a screen size change - RFB 3.7)  
  
Fixed crashing bug where certain unknown keys would crash OSXvnc  
Fixed problem with Shift-Tab (sent from OS X) being ignored as an End Of Medium character, when it didn't crash the whole server  
Fixed problem with OSXvnc causing machine interruptions when no clients connected by disabling poll for ScreenUpdates (Bug-770661)  
Now Attempting to pass the CGCharCode, reports that this improves stability (no crashing during key events like Return).  
Added Bundle Loading to hopefully allow OSXvnc to run on 10.0 and use 10.2 and 10.3 specific enhancements  
Fixed an occasional problem sending a rectangle without having accounted for it  
Fixed a rare bug where it was occasionally possible for clients to miss a copy event which occurred on the server.  
Fixed so that scroll wheel events don't leak by adding NSAutoreleasePool (Bug-760383)  
Fixed some pasteboard problems with non text put to pasteboard  
Minor Performance improvements for delay between thread notifications

**Version 1.2, Released 5/7/2003:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.

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Improvements to StartupItems script for Startup on System Boot  
Fixed so that client keys which are being held down by a client will be released when the client disconnects  
Fixed pasteboard bug where Server Cut Text event was being sent only in response to screen updates and sometimes within an RFB  
Fixed problem where server sometimes says it needs to restart when nothing changed  
Fixed an occassional Crash on Disconnect in 10.1  
Fixed a problem with lossy conversion to CStrings for clipboard contents with non-roman characters.  
Setup run-loop to only poll screen when clients are connected, for improved performance.  
Change to place temporary files in /tmp if the application package is not writable. (10.2 only)

**Version 1.11, Released 1/18/2003:**

Modified by Jonathan Gillaspie with Redstone Software, Inc.

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\* Contributions from (OSXvncPlus) by Steven Tamm  
\* Contributions from (OSXvnc 0.8) by Mihai Parparita  
\* Cool Icon Contributed by Martin Gneau (<http://www.gneau.com>)  
Included StartupItems folder for Startup on System Boot  
Version 1.11 of StartupItems Script will relaunch after a user logout  
GUI will now offer Server Restart when appropriate

OSXvnc now supports Scroll Wheel Mice (compliant with RealVNC 3.3.5+)  
OSXvnc now supports zRLE encoding (compliant with RealVNC 3.3.4+)  
8-Bit color now works  
Can optionally set to allow only local connections (useful with SSH)  
    Updated FAQ with lots of useful information  
Enhanced Keyboard Mapping Performance  
    Now compatible with all versions of Chicken of the VNC  
Fixed which caused pointer events to be locked out and occasionally not recognized  
    Fixed to a problem when multiple clients were using encodings that use Zlib compression  
    Fixed to a problem where changing screen resolution didn't work if launched command line  
    Fixed to the Zero Size Rect  
    Fixed to the default keymapping for ~ and ` keys

**Version 1.0, Released 9/26/2002:**

Modified by Jonathan Gillaspie & Doug Simons with Redstone Software, Inc.  
[osxvnc@redstonesoftware.com](mailto:osxvnc@redstonesoftware.com)  
VNC Server will restart if the screen resolution Changes  
Now sends updates on request as per protocol  
Now Handles Pasteboard events  
Now correctly handles multiple connections  
Now stores setting in preferences  
Now pulls host name for default display  
Now defaults to display numer 0 = Port 5900  
Doesn't launch second icon to dock  
Now able to swap mouse #2/#3 for Right Clicks  
Allows Disabling Remote Keyboard and Mouse  
Allows Autostart server on launch

**Version 0.7, Released 4/23/2002:**

Modified by Mahmud Haque [mahmud@bcm.tmc.edu](mailto:mahmud@bcm.tmc.edu)  
Add support for zlib and tight encoding ( codes from Tightvnc source).  
Add support for zlibhex encoding ( codes from Tridia source).

**Version 0.6, Released 5/14/2001:**

Add support for controlling display dimming and sleep based on  
patch submitted by Jed Davis <jldavis@cs.oberlin.edu>. A dimmed  
display now wakes up when there is VNC input.  
Various minor UI fixes: remove console debugging output; add  
0 to the list of display numbers; change default display name  
to "Mac OS X"; don't leave the UI disabled when the server dies  
unexpectedly.

**Version 0.5, released 4/25/2001:**

Initial release.

**Things To Do:**

**Still to do:**

Bundles performance optimization

Move Disable Logic To Puma Bundle - Necessary for 10.0?

**Mouse Cursor:**

Occasional cursor artifacts (disabling cursor display didn't seem to help)  
Problem with partial transparency on cursors - displayed using threshold

Fix so that server doesn't die when user logs out

Tried using demonize, didn't seem to fix it, I think it needs to be the run loop which shuts down

Option to set background to Black on Connect

(/System/Library/Frameworks/ScreenSaver.framework/Resources/ScreenSaverEngine.app/Contents/MacOS/  
ScreenSaverEngine -background -module "" &)

Disable the screen-blanking/screen-saver while people are connected

It does some of this, must verify

Fix bug when running with local screen in 256 Color Mode

Fix bug in CoRRE

Support For Multiple Physical Displays

Have some basics in but haven't resolved dealing with the multiple screens as part of a larger screen area (need to translate events, etc.)

Replace -localhost with full -vncauth file

Add inetd/xinetd support

So OSXvnc will startup when a request comes in  
Look in RealVNC 4.0 for example

Add "Send Full Screen" Mode - Useful for things like Keynote which bypasses CGRemoteOperations API  
Possibly Detect when machine enters such a mode - ie starts running Keynote

Paint in Local Mouse Cursor Option

Try using the rfbLocalBuffer logic - BUT instead of running the whole screen through that  
Just send an update for cursor position when cursor moves. Or when other updates go out.